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DATE MAILED: 03/20/2008

NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 03/20/2008

HEWLETT-PACKARD COMPANY Intellectual Property Administration P.O. Box 272400 Fort Collins CO 80527-2400

EXAMINER				
DANG, DUY M				
ART UNIT	PAPER NUMBER			
2624				

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/717.739	11/20/2003	Bin Zhang	200310996-1	8701

TITLE OF INVENTION: METHOD AND SYSTEM OF IMAGE SEGMENTATION USING REGRESSION CLUSTERING

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	06/20/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

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appropriate. All further indicated unless corrects maintenance fee notifica	ed belôw or directed oth	ng the Patent, advance on nerwise in Block 1, by (rders and notification a) specifying a new o	of m	aintenance fees woondence address;	ill be and/or	mailed to the current (b) indicating a sepa	corres	spondence address as FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Name the Block I for any changes of address) 7590 0A20/2008 HEWLETT-PACKARD COMPANY Intellectual Property Administration P.O. Box 272400				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
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Fort Collins, CC	80527-2400								(Depositor's name)
				_					(Signature)
									(Date)
APPLICATION NO.	APPLICATION NO. FILING DATE FIRST NAMED INVENTO			TOR		ATTO	RNEY DOCKET NO.	CO	NFIRMATION NO.
10/717,739 TITLE OF INVENTION	11/20/2003 I: METHOD AND SYST	TEM OF IMAGE SEGMI	Bin Zhang ENTATION USING R	EGRI	ESSION CLUSTE	RING	200310996-1		8701
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nonprovisional	NO	\$1440	\$300		\$0		\$1740		06/20/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS						
DANG,		2624	382-164000	00					
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha B/122) attached. ication (or "Fee Address)2 or more recent) attach ND RESIDENCE DATA	"Indication form ed. Use of a Customer		ip to native single or a attor If be p	3 registered paten ely, firm (having as a gent) and the nam- neys or agents. If orinted.	memb es of u no nan	er a 2 p to le is 3		
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	s SMALL ENTITY state	as. See 37 CFR 1.27.					ITTY status. Sec 37 Cl		
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte ites Patent and Trademark	ed from anyone other the k Office.	nan th	e applicant; a regi	stered.	attorney or agent; or th	ne assi	gnee or other party in
Authorized Signature					Date				
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This collection of inform an application. Confiden submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this but 'irginia 22313-1450. DC k13-1450.	CFR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR	on is required to obtain 1.14. This collection is depending upon the is the Chief Information O COMPLETED FORM	or re s esti indivi fficer S TO	etain a benefit by the mated to take 12 r idual case. Any co r, U.S. Patent and THIS ADDRESS	he pub ninute: mmen Trader SEN	tic which is to file (and to complete, including s on the amount of tire ark Office, U.S. Deptor of the complete of the comple	l by th ig gath me you artmen for Par	ne USPTO to process) hering, preparing, and u require to complete at of Commerce, P.O. tents, P.O. Box 1450,

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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



UNITED STATES PATENT AND TRADEMARK OFFICE

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HEWLETT-PAC	KARD COMPANY	•	DANG,	DUY M	
Intellectual Proper	ty Administration		ART UNIT	PAPER NUMBER	
P.O. Box 272400 Fort Collins, CO 8	0527-2400		2624		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 890 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 890 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/717,739	ZHANG, BIN	
Examiner	Art Unit	
Duy M. Dana	2624	

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative

- -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to amendment filed 12/27/07. The allowed claim(s) is/are 1,4-14 and 17-27. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) \square All b) ☐ Some* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6.

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date 3. Information Disclosure Statements (PTO/SB/08), 7. X Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material
 - /Duy M Dang/ Primary Examiner, Art Unit 2624

Other .

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DETAILED ACTION

 Applicant's amendment filed on December 27, 2007 has been entered and made of record.

This application is in condition for allowance except for the presence of claims 15-16 directed to a species II non-elected without traverse, see Applicant's Response to Restriction Requirement filed on July 30, 2007. Accordingly, claims 15-16 have been cancelled.

Examiner's Amendment

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

-Please cancel claims 15-16.

Allowable Subject Matter

- 3. Claims 1, 4-14 and 17-27 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

It is noted that amended claim 1 now includes subject matter previously recited in claim 3 which was indicated allowable in the previous Office action mailed 9/28/07. Specifically, the claimed features of "regressively clustering pixels of an image with respect to a color model characterizing the image by regressing functions that correlate pixels having an attribute of similar value with respect to a first primary color model and clustering pixels of the image into distinct groups based upon the regressed functions" recited at lines 2-5 of claim 1 are not taught

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or suggested by the cited prior art. Likewise, claims 4-11 depend from claim 1 and thus are allowed for the same reasons.

Regarding claims 12-14 and 17, the rejection under 35 USC 101 as being directed to nonstatutory subject matter has been withdrawn in view of Applicant's remarks, see lines 3-10 of page 7 and amendment to claims 12-14 and 17 to include "A tangible computer readable storage medium." Additionally, claim 12 is allowed because the claimed features of "generating a set of functions, for each segment, that correlate pixels having an attribute of similar value relative a color model, wherein each of the set of functions is based relative to a different primary color of the color model characterizing the image" recited at lines 5-8 are not taught or suggested by the cited prior art. Likewise, claims 13-14 and 17 depend from claim 12 and thus are allowed for the

Claims 18-22 are allowed for the same reasons as set forth for claims 12-14 and 17 above.

Claims 23-27 are also allowed for the same reasons as set forth for claims 1, 4-14 and 17 above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duy M. Dang whose telephone number is 571-272-7389. The examiner can normally be reached on Monday to Friday from 6:00AM to 2:30PM. Application/Control Number: 10/717,739 Page 4

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eileen D. Lillis can be reached on 571-272-6928. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

dmd

March 6, 2008

/Duv M Dang/

Primary Examiner, Art Unit 2624